

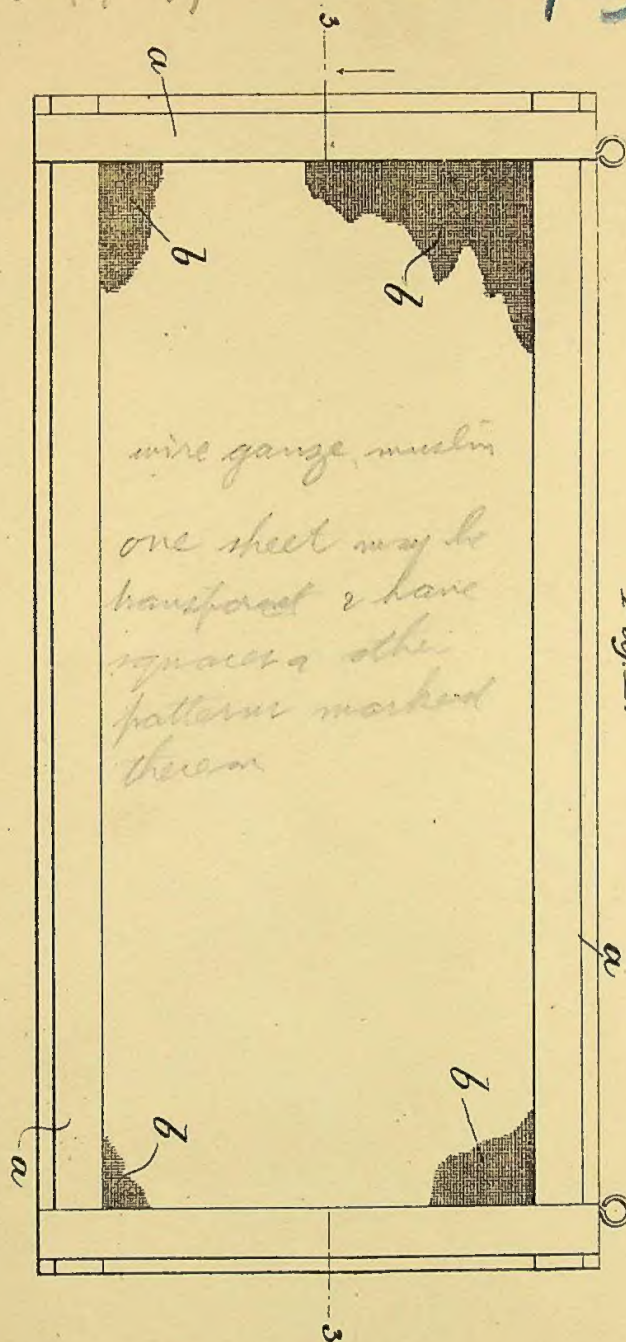
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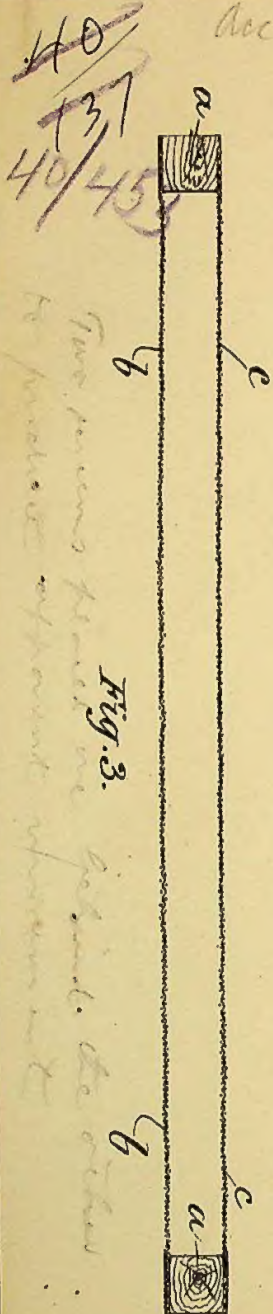
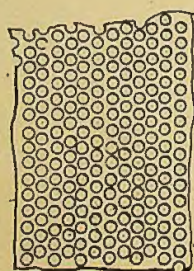
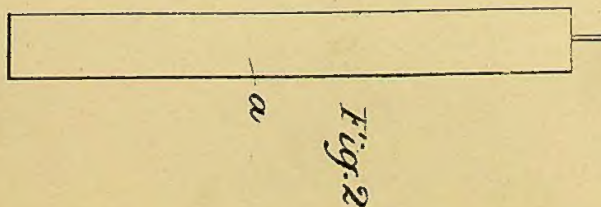
~~137~~

2 ft. comble spec  
3 ft. incl. from spec



wire gauge, must in  
one sheet may be  
transferred & have  
signatures & other  
patterns marked  
thereon

[This Drawing is a reproduction of the Original on a reduced scale.]



Two pieces of wire are joined. The other  
to produce apparent inflection etc



137  
N<sup>o</sup> 19,620



33  
35  
A.D. 1898

Date of Application, 15th Sept., 1898

Complete Specification Left, 15th July, 1899—Accepted, 19th Aug., 1899

PROVISIONAL SPECIFICATION.

**Improvements in and Means for the Production of Novel Optical Effects, applicable to Advertising Devices, Stage Purposes and the like.**

We, ARTHUR JOSEPH PARSONS, of 10, Dunster Gardens, Brondesbury, London, Electrical Engineer, and CHARLES ORME BASTIAN, of 8A, Manchester Square, London, Electrical Engineer, do hereby declare the nature of this invention to be as follows:—

5 The object of our invention is to produce an apparent motion to the surface of advertising signs and the like or other displayed surfaces either with or without the aid of any mechanical moving parts.

One method of carrying our invention into effect is by means of wire gauze muslin or other suitable material so woven or formed as to allow light to pass  
10 therethrough.

Two pieces of such material may be placed a suitable distance one behind the other and so arranged as to allow light from any convenient source to shine through them towards the eye of the observer to whom the surface of the device will then appear as though it were composed of a so-called "watered" fabric—  
15 that is to say an apparent light and shade will be distributed over its surface and the light and shade will continually change their relative positions on the slightest movement of the observer or of the device and thus an apparent motion is imparted to the said surface.

The effect may be improved by causing coloured light to pass through the  
20 device.

If desired we may only use one sheet of woven material and place behind it a plain surface advantageously transparent or coloured or both on which lines or squares or any other suitable pattern may be formed. The slightest movement of the woven material or the pattern or both or the slightest movement on the  
25 part of the observer when looking through the woven material onto the pattern will cause an apparent motion to be imparted to the said pattern.

A sheet of glass or other material corrugated or formed so as to suitably refract the light passing through it may be used in place of the woven material in front of the aforesaid pattern.

30 This invention could be utilized in the production of novel theatrical effects or advertisements and public announcements could be displayed in front of or on the apparently moving surface.

An advertising sign constructed according to this invention could be slung up or mounted in such a way as to have motion imparted to it by the movement of  
35 the atmosphere.

Dated this 14th day of September 1898.

TONGUE & BIRKBECK,  
Southampton Buildings, Chancery Lane, London, W.C.,  
Agents for the Applicants.

[Price 8d.]



## COMPLETE SPECIFICATION.

**Improvements in and Means for the Production of Novel Optical Effects, applicable to Advertising Devices, Stage Purposes and the like.**

We, ARTHUR JOSEPH PARSONS, of 10, Dunster Gardens, Brondesbury, London, Electrical Engineer, and CHARLES ORME BASTIAN, of 8A, Manchester Square, London, Electrical Engineer, do hereby declare the nature of this invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement:—

The object of our invention is to produce an apparent motion to the surface of advertising signs and the like or other displayed surfaces either with or without the aid of any mechanical moving parts.

One method of carrying our invention into effect is by means of wire gauze muslin or other suitable material (that is material having numerous interstices) so woven or formed as to allow rays of light to pass therethrough.

Two pieces of such material are placed advantageously in parallel planes a suitable distance one behind the other and so arranged as to allow light from any convenient source to pass through them towards the eye of the observer to whom the device will then produce somewhat the appearance of a so-called "watered" fabric—that is to say an apparent light and shade will be distributed over its surface and the light and shade will continually change their relative positions or appearances on the movement of the observer or of the device and thus an apparent motion or changing optical effect is imparted by the said device.

The effect may be varied by causing colored light to pass through the device. If desired one of the two surfaces may be arranged and adapted to be moved with respect to the other; or both may be moved relatively to each other.

This invention may be utilised in the production of novel theatrical effects or advertisements; and public announcements could be displayed in front of or on the apparently moving surface.

An advertising sign constructed according to this invention could be swung or mounted in such a way as to be swayed or to have motion imparted to it by the movement of the atmosphere.

In the drawings hereunto annexed we have illustrated an example of carrying the present invention into effect.

Fig. 1 is a front elevation of a device constructed according to the present invention.

Fig. 2 is an end view thereof.

Fig. 3 is a longitudinal sectional view on line 3—3 Fig. 1.

Fig. 4 is a local view of perforated sheet metal which may be used in some cases in place of woven wire gauze shown in Fig. 1.

*a* is a frame of wood or other suitable material constructed in any suitable manner.

*b* is sheet of wire gauze woven to any desired mesh say 80-mesh wire gauze.

*c* is another identical sheet or similar or other sheet of suitable woven material—these two sheets *b* and *c* being mounted and secured in any suitable manner on opposite sides of the frame *a* so as to be held in parallel planes; any suitable advertisement or notice *etc.* (word or words or device) may be arranged upon or in front of one or both of these surfaces *b* and *c* and when same has been placed in any suitable position in the light then as same is moved relatively to the eye of the observer, or as the observer moves relatively to said device, thereby a novel or striking optical effect is produced of an attractive character.

If desired perforated sheet metal such as shown in Fig. 4 may be used in place



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*Improvements in and Means for the Production of Novel Optical Effects, &c.*

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of woven wire gauze—especially when the device is to be arranged at a distance from the observer as for instance when it is to be mounted on the top of a building, or when the device is constructed on a large scale.

5      Small-sized devices constructed according to the present invention may as aforesaid have an advertisement or notice on each side *b* and *c* respectively for instance for such purposes as hanging in a shop window or inside omnibuses so that persons exterior of said shop or omnibus can see the advertisement *etc.* on the outer side of said device without being able to see the back of the advertisement on the inner side of said device and *vice versa* that is to say persons inside the  
10 shop or omnibus *etc.* can see the advertisement on the inside face of said device without the latter being affected by the advertisement *etc.* on the outside face.

We have found in practice that the intervening space between the two surfaces *b* and *c* may vary according to the closeness of the mesh or interstices and also according to the distance from the observer at which the sign *etc.* is to be fixed.

15      Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed we declare that what we claim is:—

1. The herein described means for the production of novel optical effects for advertising, stage, or other purposes, consisting of the arrangement and com-  
20 bination of two sheets of wire gauze or perforated sheet metal in parallel planes with an intervening space and having any suitable advertisement or notice acting in conjunction therewith substantially in the manner hereinbefore set forth.

2. The herein described means for the production of novel optical effects for advertising, stage, or other purposes, consisting of the arrangement and com-  
25 bination of two sheets of material having numerous interstices or perforations and having any suitable advertisement or notice arranged to act in conjunction therewith substantially in the manner hereinbefore set forth.

3. Advertising signs or devices constructed combined and arranged to act substantially in the manner and for the purposes hereinbefore set forth.

30      Dated this 14th day of July 1899.

TONGUE & BIRKBECK,  
31, Southampton Buildings, Chancery Lane, London, W.C.,  
Agents for the Applicants.